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IN THE CLAIMS:

1 – 2. (Canceled)

3. (Withdrawn) The leadscrew drive of claim 1, wherein the elongated annular leadscrew shell has a core support.

4 – 20. (Canceled)

21. (Previously Presented) A small diameter, low to medium duty leadscrew drive system comprising:

a cylindrically shaped, flexible leadscrew having a hollow interior and a ratio of annular thickness to cylindrical diameter within a range of about 0.0004 to about 0.01.

22. (Previously Presented) The leadscrew drive of claim 21, wherein the leadscrew is formed of a high density, low porosity material.

23. (Previously Presented) The leadscrew drive of claim 22, wherein the leadscrew is formed of nickel based material.

24. (Previously Presented) The leadscrew drive of claim 22, wherein the leadscrew is formed of a non-metal embedded metallic matrix.

25. (Previously Presented) The leadscrew drive of claim 24, wherein the leadscrew is formed of an electroless deposited nickel-based matrix with polytetrafluoroethylene particles.

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26. (Previously Presented) The leadscrew drive of claim 21, wherein the leadscrew is formed of a material resulting in the leadscrew having axial strength and stiffness parallel to the longitudinal axis of the leadscrew and stability in bending perpendicular to the longitudinal axis of the leadscrew.